

SITE INFORMATION

Site Identifier :	BK3RB6	Landowner Type :	Federal
Site Name :		Landowner Name :	USFS
WRIA :	03.0498X	Address :	
Region :	NS	Address2 :	
Trib to :	L. Sandy Cr	City :	
River Mile :	0.40	State :	
River System :	Baker R	Zipcode :	
Legal Description :	SW1/4S7T37NR9E	Phone :	
County :	Whatcom		
Habitat Type :	lower valley wall tributary		

Coordinates

East: 1,713,090.00North: 1,230,307.00

Directions :
From the Cook Rd. and Hwy 20 intersect, head east on Hwy 20 for 17.8 miles to the Baker Lake Rd. on the left. Turn left and go 16.3 miles to the FS 1122 road on the right. Follow the road to Little Sandy Creek and park. The site is located up Little Sandy Creek 0.2 miles.

Area Overview :
Site is a surface stream over one mile in length with a small tributary that forks at the upper end. The mainstem has alternating stretches of low gradient and moderate gradient, with the lower end going intermittent in the summer below an area where the channel splits into several channels. The mainstem has some extremely large woody debris with many of the logs over one meter in diameter. There were many coho fry in the reaches that were wetted. The lower reaches of the tributary were very low gradient and coho fry were abundant. In the upper reaches above the Baker Lake road many cutthroat trout were observed.

Field Survey Information

Date : 6/14/99

Observer : Barkdull

Survey Type : initial

HABITAT INFORMATION

Water Source:	<input type="checkbox"/> Spring	<input type="checkbox"/> Groundwater	<input checked="" type="checkbox"/> Surface runoff
Flow:	<input checked="" type="checkbox"/> Intermittent	<input type="checkbox"/> Year-round	
Estimated Flows (cfs):	Lower end:0 Upper end:1.0		
Water Temperature(C):	Lower end: Upper end:10.5		
Receiving Water Temperature (C):			
Other Observations:14' at 639 meters in first pool in mainstem. 11.5 in trib at mouth			
Site Area Measurements:	<input type="checkbox"/> Indirect	<input checked="" type="checkbox"/> Direct	<input type="checkbox"/> Combination
Widths: Channel:3.0	Ponds:	Wetlands:	
Depths: Channel:0.4	Ponds:	Wetlands:	
Total length (includes ponds and wetlands):2353			
Total existing habitat area (est. m2): 7702			

Spawning area:	Mainstem:1800	Tribs:390	Total:2190
Impounded area:	Mainstem:	Tribs:	Total:
Other rearing area:	Mainstem:6417	Tribs:1285	Total:7702
Unaccessible habitat:	Mainstem:	Tribs:	Total:

Spawning habitat conditions: ☐ None ☐ Poor ☐ Fair ☒ Good ☐ Exellent

Describe spawning habitat: Spawning conditions are a very mixed bag. Conditions are excellent in the lower 60 meters of the tributary and between 859 and 1098 meters in the mainstem where most old redds and coho fry were observed. in these reaches the gravel is ideal sized with little sand. Other low gradient reaches offered lower quality spawning habitat either because of larger gravel and cobbles, or because of sand.

Rearing habitat conditions: ☐ None ☐ Poor ☐ Fair ☐ Good ☐ Exellent

Describe pond and other rearing habitat:This stream and it's tributary have alternate low gradient and moderate gradient sections and flows through old growth forest for the most part. The lower gradient reaches have extremely good rearing habitat with large pools formed by extremely large woody debris, some of which is upwards of two meters in diameter. The higher gradient reaches are mostly bouldery rapids and cascades and are mostly just transportation water. Sections of the tributary flow through swampy areas that have thick vine maple.

Describe unaccessible habitat:

Wetland type: ☐ Bog ☐ Marsh ☐ Scrub-shrub ☐ Forested

Describe:

Flooding potential: ☒ Low ☐ Medium ☐ High

Describe: Streams all appear very stable.

FISH INFORMATION

Site entry condition: ☐ Poor ☒ Fair ☐ Good

Describe:The site was dry at the mouth on the day day of the survey so there is no access to the wetted area in summer. Access is very good when flowing.

Coho access and use: Juvenile ☐ Unknown ☐ None ☐ Poor ☐ Fair ☒ Good
Adult ☐ Unknown ☐ None ☐ Poor ☐ Fair ☒ Good

Describe:In the mainstem the lower gradient reaches that were flowing had very dense coho fry populations. Coho fry were dense in the lower 116 meters to a point where the gradient increased sharply for a short distance. Above this point only culttrout were observed. Old coho redds were observed in the lower gradient reaches but especially between 859 and 1098 meters in the mainstem and in the lower 60 meters of the tributary.

Other species acces and use: ☐ Chum ☐ Pink ☐ Sockeye ☐ Chinook ☒ Trout

Describe:Many cutthroat trout were observed as were probable cutthroat redds in the tributary, especially above the road crossing.

ENHANCEMENT OPPORTUNITIES

Project type:Culvert Replacement

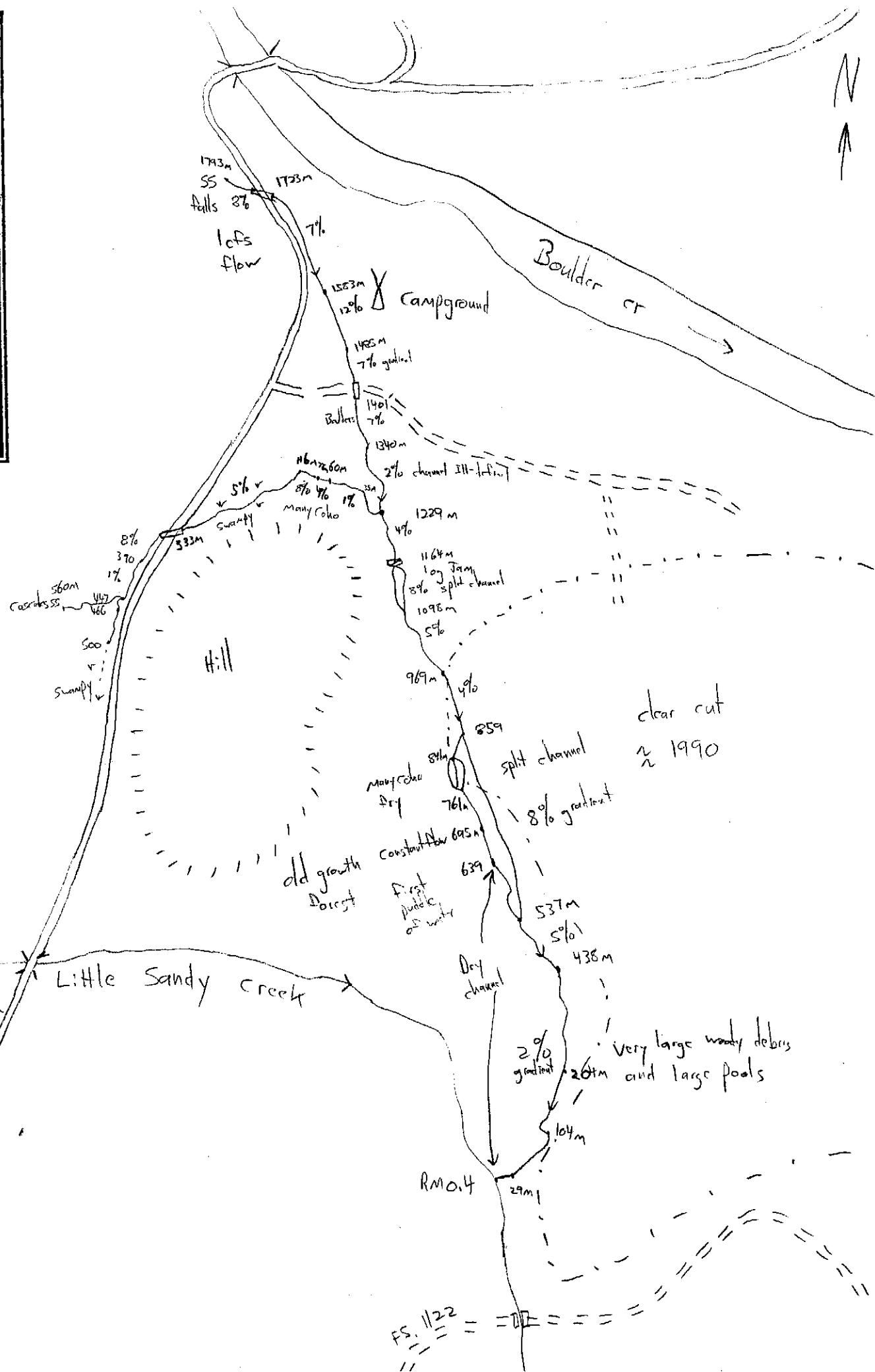
Equipment access:Good

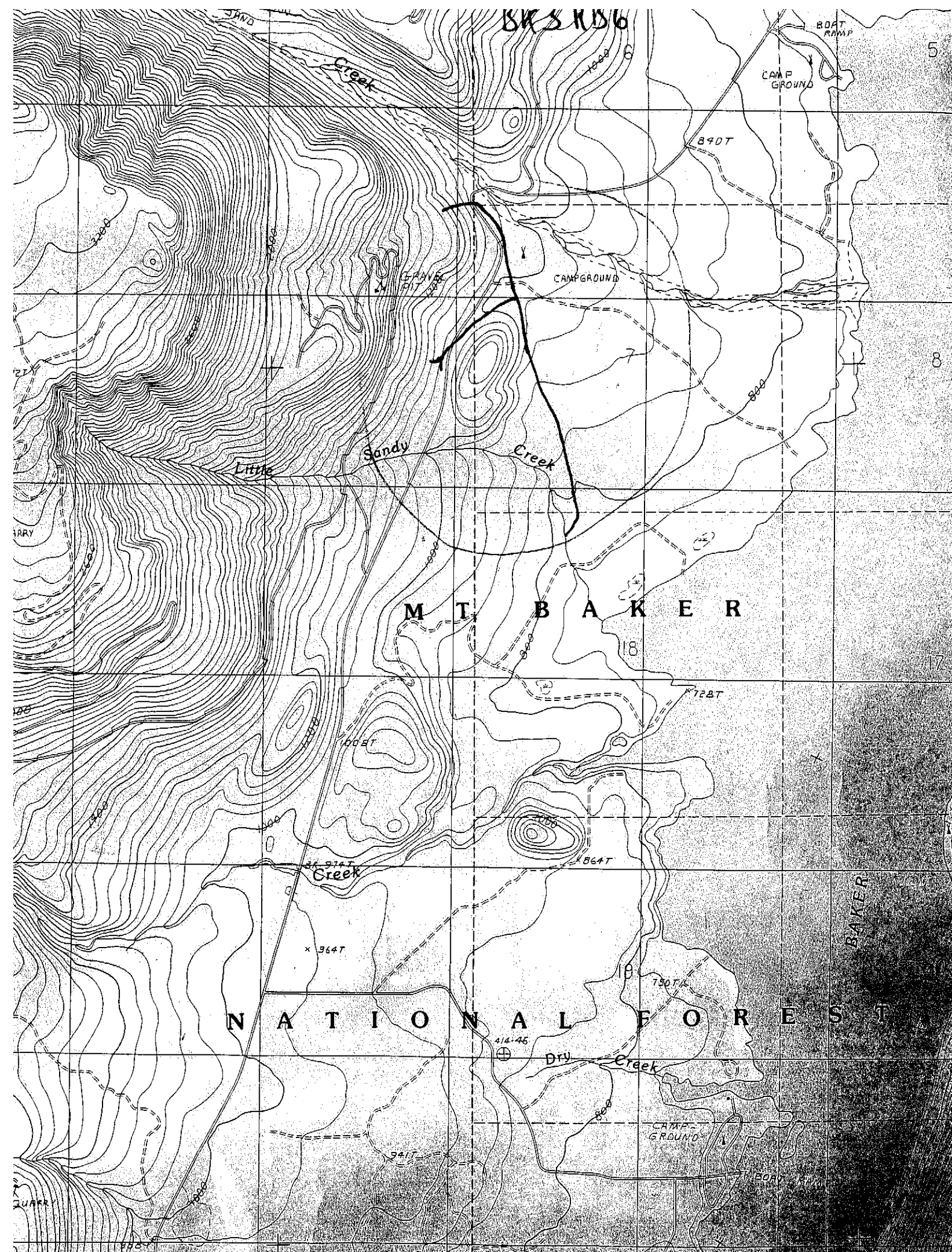
ADDITIONAL COMMENTS: There are three culverts on this system. The two culverts on the mainstem at 1401 meters and 1723 meters are both partial barriers and need replacement. The third culvert at 333 meters on the trib is passable.

ATTACHMENTS AVAILABLE

- ☐ Aerials ☒ Sketch ☒ Maps ☐ Spawning Surveys ☐ Juvenile Trapping
- ☒ Other References: Skagit System Co-op

Site id. code: BK3AB6
 Site name:
 Scale: 1" = 200 m
 Observer(s): B. Barkdull
 Legal location:





6/14/99 trip to L. Sandy cr.
0-6 4.0 w/c dry Dry L. Sandy 52
29 4.0 Dry, turns BB or GB
104 4.0 Very large woody debris
low gradient, 2%? very
large pools at times
Cobble 50, gravel 20, Boulder 10, sand 20
204 4.0 leaving edge of desert
438 4.0 4% gradient, less
sp. gravel, more Boulders

Bk3 RB6

Rm 0.4

SW7, T37N, R9E

438

204

104

clear cut

29

L. Sandy cr.

0.3 mi

F.S. Road

537. No channel split?

steeper more boulders

639 3.0 first divide of
water, 58°

695 3.0 constant flow Coho channel

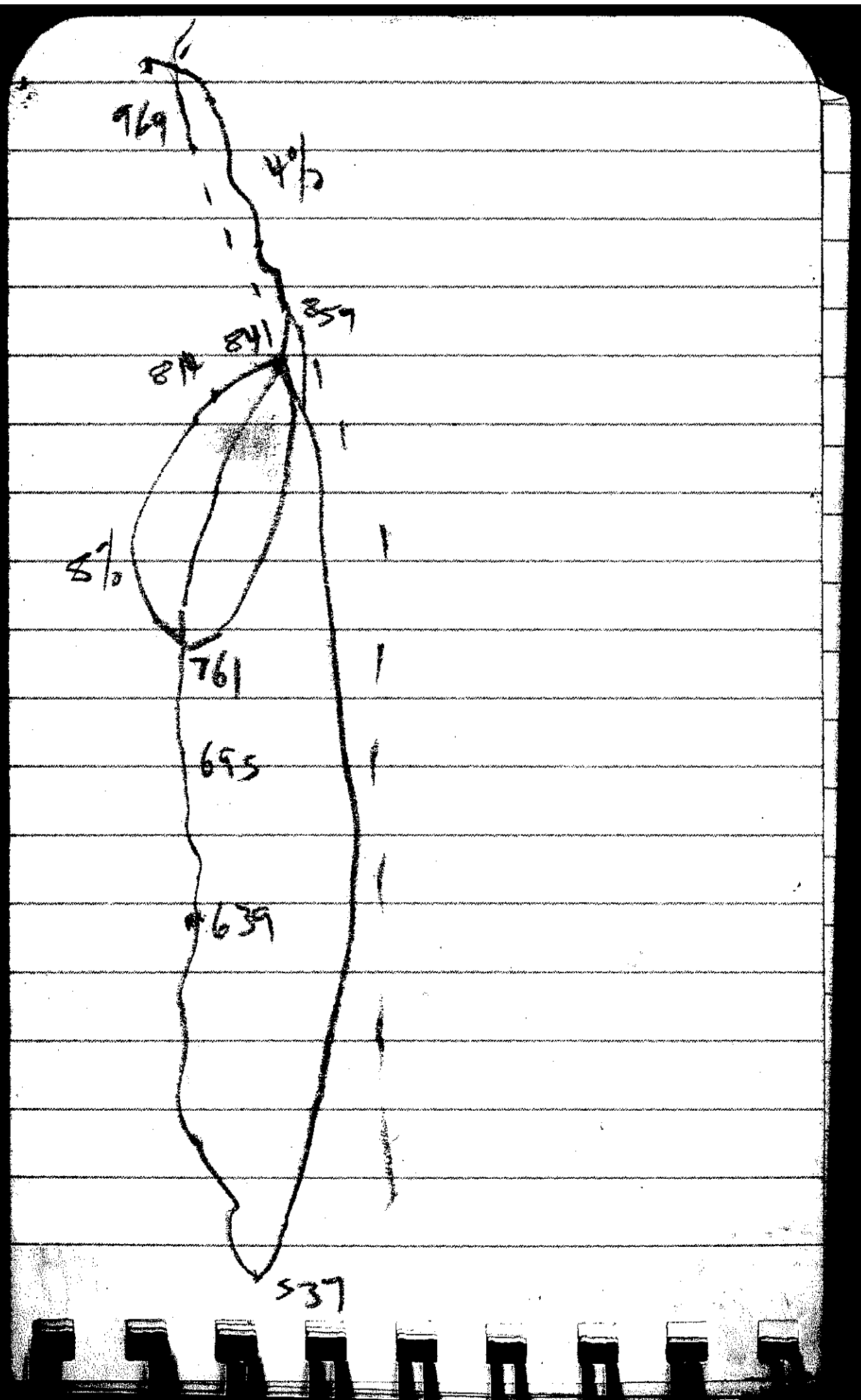
761 3.0 Braided channel, many
Coho Fry

814 2.0 steep cascade

~~814~~ Alluvial fan, many Boulders
on edge of clear cut

859 last split

969 4.0 40% gravel, with
patches of ~~stagnant~~ gravel
many Coho, lots of
flow stretch is clear cut,
but back into forest



1098 4.0 Boulders road
low Ash, 5% gravel

1164 3.0, 1.0 splash 8%

1229 4.5 low gradient, many

Coho for good gravel

1342 4.0 / channel not well defined

1401 2.8 Boulders 7%

at 3x4 squash pit

Need form

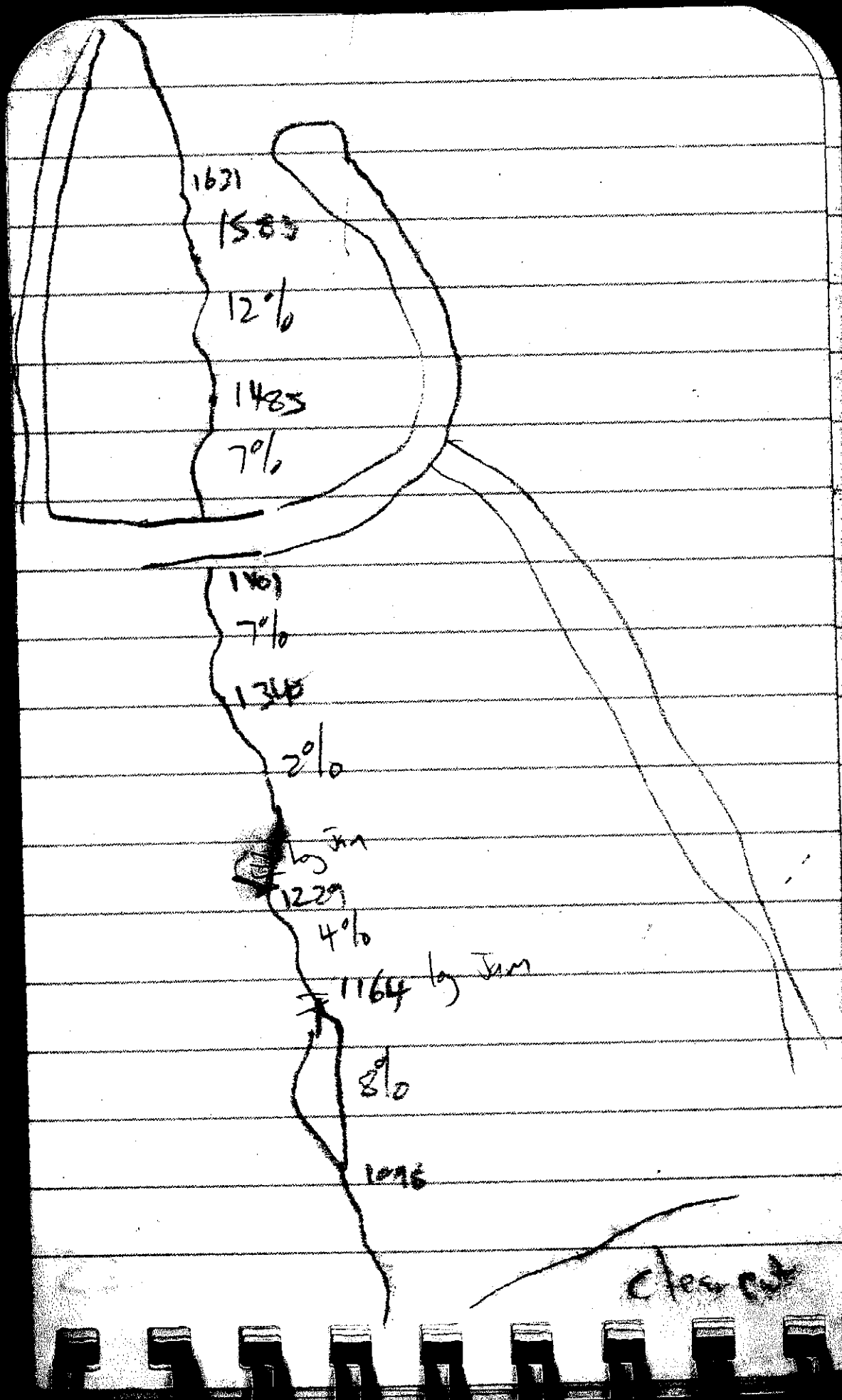
1485 2.5 7% all Riprap

1583 3.0 12%

1631 2.5 7%

1723 3.0 7% culvert on main

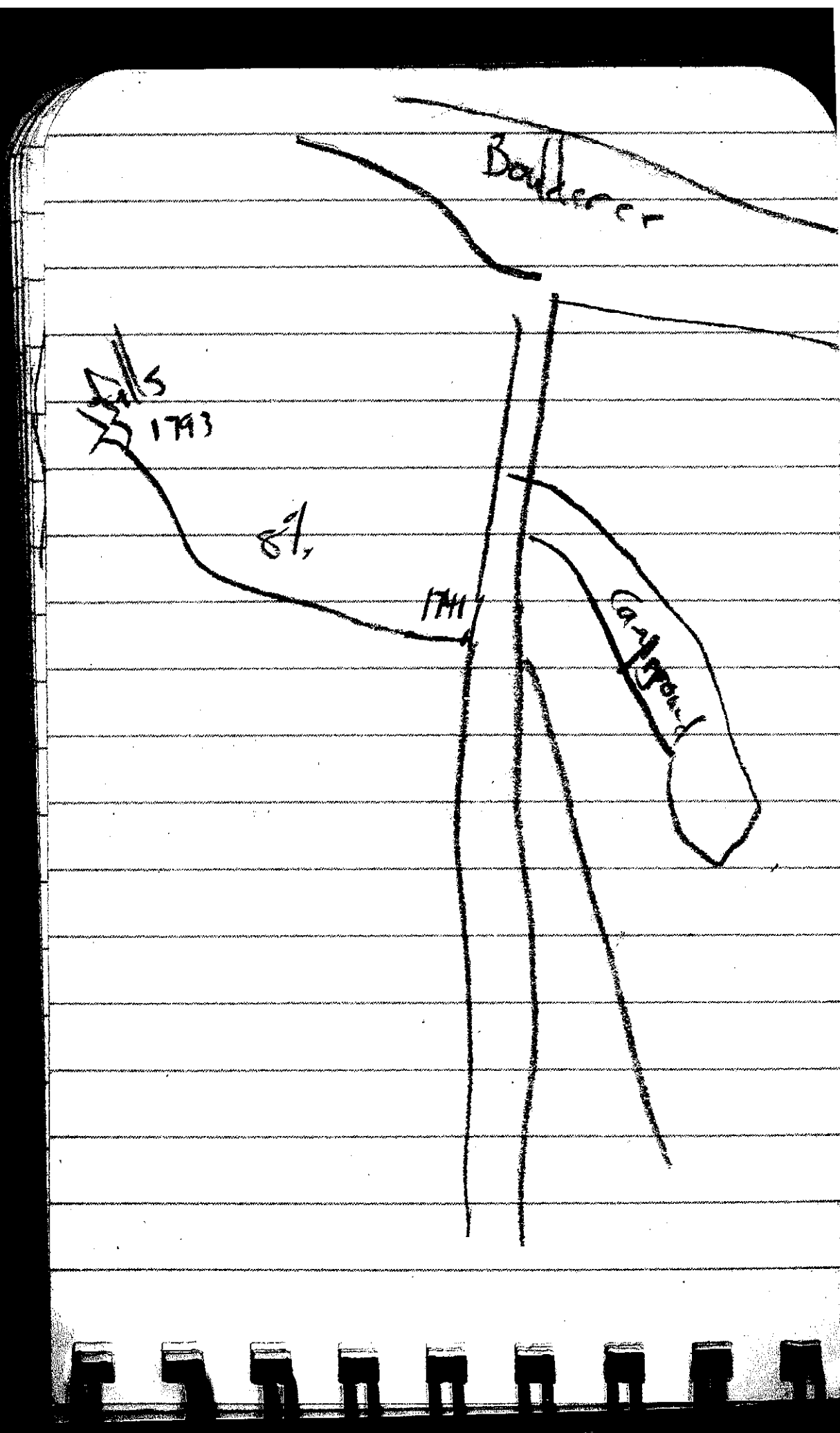
road



1748 upper end of Culvert
1793 falls, 30 8%

water temp 53°

last caho observed at 1229
old growth forest throughout
very large woody debris
occasional log jams & falls



6/15/99 Trib to trib to L. Sandy

starts @ 1229 to trib 51° 0.3 ch

0.0 2.0 cde fry observed B/B at mouth
only 1 Reading

38 3.0 Very low gradient,
gravel & sand, many cde, good sp.

60 3.0 1% 3' falls over log

77 3.0 4% still nice gravel

but Boulders mixed in, cde fry

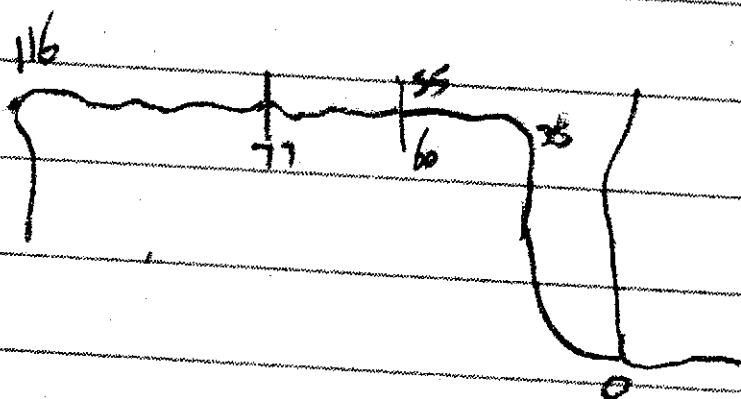
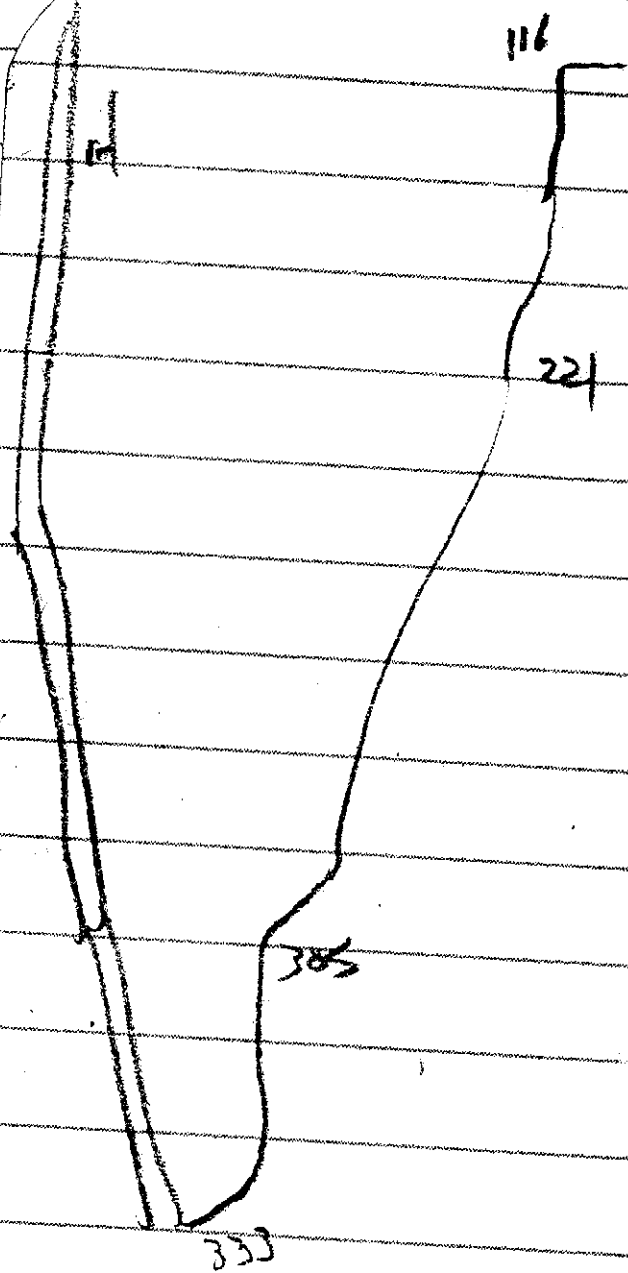
116 3.0 8% Boulders

221 2.5 6% very thick brush,
short stretches of low gradient, swamps

very thick woody debris - cde fry ^{edges}

305 2.5 4% some patches of gravel

333 2.5 cobbles, sand & boulders, fish
Road culvert, 3' CMP, 100% possible



Continued

390 2.0 8/6 In Ditch
Cobbles, Boulders Catfish

400 spring LB

447 3.0 1% very near stream,
full of fish Catfish?
Fishes

466 1.0 0.1 c/s Above jam, falls
probably out of rocks

500 0.5 picks out a swampy area
very incised channel

500 1.5 Left fork

522 1.5 Catfish, Reds throughout
3' deep Through log jam
560 1.5 picks up gradient to
cascade, larger gravel

Coho abundant almost to Road cr.
then Catfish

